

**What is claimed is:**

1. An inspection system for air cargoes, in which an accelerator, a collimator, and a vertical detector arm are all mounted on a floor; detectors are provided within both a horizontal detector arm and the vertical detector arm; the accelerator, the collimator, the horizontal detector arm and the vertical detector arm are provided in a same plane; the horizontal detector arm is supported by an upper end of the collimator; the vertical detector arm and the horizontal detector arm are connected to each other and provided in the side opposite to the accelerator; a stable portal-shaped frame is formed by means of the collimator, the horizontal detector arm and the vertical detector arm; a conveying device is located under the horizontal detector arm, being perpendicular to the portal-shaped frame, the collimator is provided between the conveying device and the accelerator; and a scanning tunnel is enclosed by the portal-shaped frame and the conveying device, wherein

the conveying device is composed of roller conveyors and a chain-plank conveyor, one of the roller conveyors is respectively provided at each of the two ends of the chain-plank conveyor, and an idle transition roll is used to smoothly bridge the roller conveyors and the chain-plank conveyor.

2. The inspection system for air cargoes as claimed in claim 1, wherein the accelerator, the collimator and the vertical detector arm are respectively provided with an accelerator base, a collimator base and a vertical detector arm base.

3. The inspection system for air cargoes as claimed in claim 1, wherein radiation shielding walls are provided on both sides of the scanning tunnel.

4. The inspection system for air cargoes as claimed in claim 1, wherein the inspection system further comprises an instrument cabin and a workroom, the instrument cabin and the workroom are provided outside of the radiation shielding wall with respect to the scanning tunnel, the instrument cabin is provided with a scanning control module, an image data acquisition module and an operation and inspection module, and workroom is provided with a console and its control system.

5. The inspection system for air cargoes as claimed in claim 1, wherein the two ends of the scanning tunnel are open, and an electrical sensor alarming element is provided at each end of the scanning tunnel.

6. An inspection system for air cargoes, in which an accelerator, a collimator, and a vertical detector arm are all mounted on a floor; detectors are provided within both a horizontal detector arm and the vertical detector arm; the accelerator, the collimator, the horizontal detector arm and the vertical detector arm are provided in a same plane; the horizontal detector arm is supported by an upper end of the collimator; the vertical detector arm and the horizontal detector arm are connected to each other and provided in the side opposite to the accelerator; a stable portal-shaped frame is formed by means of the collimator, the horizontal detector arm and the vertical detector arm; a conveying device is located under the horizontal detector arm, being perpendicular to the portal-shaped frame; the collimator is provided between the conveying device and the accelerator; and a scanning tunnel is enclosed by the portal-shaped frame and the conveying device, wherein

the conveying device is a roller conveyor, a container carrying surface of which is in the same level as that of an idle roller trailer used in airports, and said roller conveyor is in an air cargo conveying line.

7. An inspection system for vehicles, in which an accelerator, a collimator, and a vertical detector arm are all mounted on the floor; detectors are provided within both a horizontal detector arm and the vertical detector arm, the accelerator, the collimator, the horizontal detector arm and the vertical detector arm are provided in a same plane; the horizontal detector arm is supported by the upper end of the collimator; the vertical detector arm and the horizontal detector arm are connected to each other and provided in a side opposite to the accelerator; a stable portal-shaped frame is formed by means of the collimator, the horizontal detector arm and the vertical detector arm; a conveying device is located under the horizontal detector arm, being perpendicular to the portal-shaped frame; the collimator is provided between the conveying device and the accelerator; and a scanning tunnel is enclosed by the portal-shaped frame and the conveying device, wherein

the conveying device is a chain-plank conveyor which is arranged in an air cargo conveying line;

at both ends of the chain-plank conveyor, there is each provided with a transition means which facilitates vehicles to go up to the chain-plank conveyor from the air cargo conveying line or go down to the air cargo conveying line from the chain-plank conveyor.

8. The inspection system for vehicles as claimed in claim 7, wherein the chain-plank conveyor is set up on a floor, and the transition means is a wedge which has an inclined surface to smoothly bridging the floor with the chain-plank conveyor.

9. The inspection system for vehicles as claimed in claim 7, wherein the chain-plank conveyor is provided in a pit, so that the upper surface of the chain-plank conveyor is kept in the same level as the floor and the transition means is a bridging plate.